

SUPPLY BASE
SPECIFIC OFFSHORE SUPPORT REQUIREMENTS
AND CORRESPONDING OPPORTUNITIES

Various opportunities will arise as a result of establishing a new supply base, which will be in accordance with the base requirements listed as follows:-

Base Requirements

Local Opportunities

. Quayside Offices	Install, maintain and provide supplies of office machinery and equipment, and services such as printing, typing, office management, etc.
. Quayside Berths	Renovation and maintenance.
. Quayside Support:	
Transport	Provide local and distant marine and air transport
Cranage	Hire Out and maintain
Storage Space/Warehousing	Install and maintain
Ship maintenance and repair	Support of engineering and services for supply fleet operations and maintenance
Fuelling system	Install and maintain
Water System	Install and maintain
Electrical power	Install and maintain
Lighting, site roads	Install and maintain
Victualling	A continuous requirement
Crew Service facilities	A continuous requirement
Shore accommodation	Increase in requirements
Dockside labour	Increase in requirements
Ship handling	Increase in requirements
. Communications	Provide offshore supply boat service, helicopter and aircraft service and general marine, aircraft and community communications.

Base Requirements (Cont'd)

Local Opportunities

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| . Crew changeout | A continuous regional direct labour requirements with a complimentary increase in regional hotel and traders' business. |
| . Aircraft support | A continuous requirement for maintenance and support services such as fuelling. |
| . Personnel support, victualling, laundering clothing, medical | Increase in demand for local and regional services including all forms of community services, accommodation and catering. |

Platform Requirements and Activities

The following opportunities will be encountered:-

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| . Engineering and structural | Supply and maintenance of generators, pumps, compressors, hydraulic systems, electrical and electronic systems, corrosion protection systems, steelwork and labour expertise. |
| . Rig Items (Drilling):- | |
| Drill Pipes and Collars
Wellhead Gear
Casings, Tubings
Derrick equipment
Mud, Cement, Chemicals
Fuel, Lubricants
Specialist support | Opportunities will exist locally for the supply, replenishment, repair and maintenance of equipment plus the handling of supplies. Equipment services will be continually needed.
In addition, a demand will exist for onshore offices with the usual spin offs for traders. |
| . Production:- | |
| Inspection and maintenance of wellhead, pipelines, platforms | This is a continuous requirement calling for local labour and supply facilities, e.g. submersibles, remotely controlled vehicles and divers. |
| Gas production equipment, pumps, compressors, generators, etc. | Support will be required in the installation repair and maintenance of all types of operating equipment. |
| . Pipe Laying | Onshore support will be required, especially pipe expertise which will lead onto long term maintenance. |

Platform Requirements and Activities (Cont'd)

- . Helicopter-Service A continuous requirement with local spin-offs.
- . Supply Boat Service A continuous requirement with local spin-offs.
- . Crew Boat Service A continuous requirement with local spin-offs.

NOTE:-

Safety, rescue and pollution preventive equipment, crafts and personnel will also generate more requirements and opportunities accordingly.

Index of Services Supporting the
Offshore Industry

The exploration for oil and gas is supported by a wide range of services and specialized equipment. Some of the goods and services are not exclusive to the offshore industry, but offshore operators have very special requirements. Therefore, the companies which provide such services to the offshore industry have geared their operations specifically to that industry and have developed particular expertise in this field.

The following is a list of a selection of the services involved - including the manufacture and supply of equipment, in alphabetical order:-

Accommodation unit manufacture and supply
Acoustic systems, underwater: manufacture, supply and operation
Air-conditioning, refrigeration and ventilation systems: supply servicing, installation
Anchors: manufacture and supply
Anchor-handling operations
Anti-corrosion materials and services
Anti-pollution equipment: manufacture and supply
Anti-pollution operations
Auto-pilots: design, manufacture, supply and installation

Barytes manufacture and supply
Bonded storage
B.O.P. (Blow-out preventer) manufacture and supply: B.O.P. control systems
Bulk Food supply
Buoys

Cable/chain manufacture and supply
Calibration of gauges, systems and hardware
Cargo movement
Casing, supply and manufacture
Casing crews
Casing handling tools
Casing packers
Catering
Catering equipment: manufacture, supply and servicing
Cathodic protection: systems, equipment, materials, installation, monitoring
Chemicals (drilling and other): manufacture and supply
Classification of offshore structures
Cleaning: marine and industrial
Communications equipment: manufacture, supply and maintenance
Compressor manufacture, supply and servicing
Computer services
Consultancy services: various

Container (cargo) manufacture, supply and maintenance
Control systems
Core analysis
Corrosion prevention, materials and services
Crane Barge operations
Crane manufacture, installation, maintenance and operation
(Offshore/onshore)
Crane load safety devices
Customs administration

Diesel engines (marine, industrial): manufacture, supply servicing
Directional drilling
Directional drilling equipment, manufacture and supply
Directional drilling tools: manufacture, supply and servicing
Design services
Diving
Diving Equipment: manufacture, supply and servicing
Design services
Diving
Diving equipment: manufacture, supply and servicing
Diving Gas Supply
Diving and life support systems
Drill-bit manufacture and supply
Drill cuttings: (solids) removal equipment
Drilling fluid manufacture and supply
Drilling tool manufacture, supply/rental, repair and maintenance
Drill-stem testing services
Drill-stem testing tools
Duty-free goods supply

Electrical equipment: manufacture, supply and servicing/maintenance
Electronic equipment: manufacture, supply and servicing/maintenance
Engineering: mechanical, electrical, marine, civil/structural
Engineering: Reservoir engineering consultancy services
Engineering design and draughting services
Engines: manufacture, servicing, etc.
Exploration drilling

Fabrication
Fenders, floats, etc.
Financial services
Firefighting vessels
Fishing tool manufacture, supply/rental, servicing
Fittings and furnishings for offshore accommodation
Formation testing
Freight forwarding

Gas list engineering and oilfield completion
Gas supply
Gas turbine manufacture, supply and maintenance

Generator manufacture, supply and maintenance
Geological/geophysical services
Grit-blasting
Gyrocompass manufacture, supply and servicing

Helicopter operations
Helicopter refuelling system
Hole-openers
Hydro-blasting
Hydrographic surveying
Hyperbaric rescue systems
Hyperbaric welding

Industrial cleaning
Inspection of offshore structures, equipment and pipelines
Installation, hook-up, commissioning of offshore plant equipment
Instrumentation: manufacture, supply, installation, maintenance
Insulation: materials manufacture; installation, maintenance

Labour recruitment and supply
Laudry services
Lifting tackles
Linepipe supply

Maintenance of offshore platforms and equipment
Management services
Marker bouys

Radr systems
Radio equipment/systems: supply, installation and maintenance
Radio Operators: training and supply
Repair work
Road transport
Ropes

Safety equipment
Safety shut-off valves
Salvage operations
Sampling/analysis/evaluation of reservoir fluids, gas, oil and water
Satellite navigational/communications systems
Saturation diving systems: manufacture; operation
Seabed surveys
Secretarial services
Security services
Seismic surveys
Sewage/refuse disposal systems for offshore installations
Ship-broking, ship-chartering
Ship-repair
Ships chandlery
Shot-blasting
Silos

Sonor equipment
Spares services
Stabilizers
Standby vessel operation
Steel stockholding, supply
Storage
Submersible operation
Supply base operation
Supply vessel operation
Survey craft
Survey equipment
Survival systems/craft
Survival training

Tax Consultancy
Technical manuals and handbooks; compilation, preparation
Telecommunications equipment supply, installation and maintenance
Towing, tug supply and operation
Training: production of training manuals, training offshore personnel
Tubulars supply, inspection, renovation
T.V. equipment; closed circuit/remote controlled/underwater

Underwater cameras and vehicles
Underwater engineering
Underwater equipment manufacture, sales/rental, servicing and maintenance
Underwater lighting
Underwater surveys

Valve manufacture and supply

Warehouse rental
Water treatment and purification systems: manufacture, supply
Weather-forecasting and climatological studies
Welding
Welding gas supply
Well-cementing services
Well-logging
Well-testing
Well velocity surveys
Well workover and completion services
Wellhead chokes
Wellhead and Christmas Tree manufacture and supply/servicing
Winches
Wireline Logging
Workboats

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Multi-user deep water port
proposal : supply base specific
offshore support requirements and
corresponding opportunities

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